

# EQUIVDOC INC 'J01168972'

\*\*\*\*\* Item Number 1 of 1 \*\*\*\*\*

DESCRIP :: PATENT  
TITLE :: Elastic processing agent imparting hydrophilic properties to fibers - c ontains copolymer emulsion obtd. from organopolysiloxane, (meth) acrylic monomer, hydrophilic monomer, etc.  
ASSIGNEE :: NISSHIN CHEM IND KK; SHINETSU CHEM IND KK  
PACODE :: NISV ; SHIE  
ACCNNO :: 229932  
DATE :: Jul 04, 1989  
ABSTRACT :: < BASIC> JP01168972 Fiber-treating agent contains copolymer emulsion as the main component. The copolymer emulsion is prep'd. by emulsion-polymerizing (A) mixt. of 5-95 pts. wt. oil-in-water emulsion of organopolysiloxane of formula (I) and 95-5 pts. wt. (B) monomer mixt. in the presence of a radical polymerization initiator. Mixt. (B) consists of 50-99 wt.% (b1) one or more kind of (meth)acrylic monomer of formula  $\text{CH}_2 =\text{CR}_5\text{COOR}_6$  (II). 0-10 wt.% (b2) one or more polyfunctional monomers 1-20 wt.% (b3) one or more hydrophilic monomers and 0-20 wt.% (b4) monoethylenic unsatd. monomer. in total 100 wt.%. Monomer (b2) is selected from ethylenic unsatd. amide alkylol or alkoxyalkyl subst. cpd., oxirane gp.-contg. ethylenic unsatd. monomer, complete ester of polyvalent alcohol with (meth)acrylic acid, dibasic acid diallylester, allyl(meth)acrylate and divinylbenzene. Monomer (b3) is selected from ethylenic unsatd. monomer contg. carboxyl gp., OH, amide, amino, sulfonic acid, phosphoric acid, polyalkyleneoxide and quat. ammonium salt. In (I), R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub> =1-20C monovalent hydrocarbon, monovalent halo-hydrocarbon; Y =radically reactive gp. and/or SH gp.-contg. organic gp.; X =H, monovalent lower alkyl or R<sub>1</sub>R<sub>2</sub>R<sub>4</sub>Si; R<sub>4</sub> =as R<sub>1</sub> or Y; m =less than 10,000. In (II), R<sub>5</sub> = H or CH<sub>3</sub>; R<sub>6</sub> = 1-18C alkyl or alkoxy-subst. alkyl. USE/ADVANTAGE - The processing agent is useful for fiber prods. The processing agent imparts cleaning resistance and durable flexibility, and good feeling with good impact resilience.  
@(12pp Dwg.No.0/0)@  
COPYRIGHT :: FOR INTERNAL USE ONLY - PORTIONS COPYRIGHT BY DERWENT INFORMATION LIMITED - 1989  
PNBASIC :: J01168972  
PRIORNO :: J87328606  
DATEPR :: Dec 25, 1987  
EQUIVDOC :: J91043388 J01168972 J87328606 JPAT  
SUBJECT :: METHACRYLIC  
SUBJECTP :: Radiation/Radical; Accelerators/Promotors; Si-OR/Si-Alkoxy; Polymerization; Process; Polymerization; Surfactant  
LANG :: JAPANESE  
TYPE :: PTNT  
IPCODE :: C08F-002/30; C08F-220/10; D06M-015/64  
DPCODE :: A87; F06; A14; A26  
MANUAL :: A04-F06E2; A06-A00E1; A10-C03B; A12-G; A12-S05S; F01-H06; F03-C05  
YEAR :: 1989  
YEARPR :: 1987  
COMMENT :: 89-232537/32 < XRAM> C89-10365  
RDATEMD :: Aug 21, 2000  
RDATENT :: Feb 24, 1990